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CHILDHOOD EXPOSURE TO FAMILY VIOLENCE AND ATTRITION IN THE NAVY

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Report No. 03-07

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Report No. 03-07, supported by Bureau of Naval Personnel, Department of the Navy, under research work unit no. 6309. The views expressed in this article are those of the authors and do not reflect the official policy or position of the Department of the Navy, Department of Defense, or the United States Government. Approved for public release; distribution unlimited.

Abstract

In a prospective study of U.S. Navy recruits ($N = 5,491$), we examined the relationship between childhood exposure to family violence (child physical abuse, CPA; child sexual abuse, CSA; and domestic violence, DV) and attrition. Overall, 55% of recruits experienced one or more forms of childhood family violence and 34% of recruits attrited within 4 years following enlistment. Considered separately, each form of childhood violence was significantly associated with attrition. When considered simultaneously, all three types of childhood violence were associated with attrition in men, but only CSA was associated with attrition in women. Men and women who experienced all three types of childhood violence were 303% and 139%, respectively, more likely to attrite than recruits who reported no childhood violence. In analyses examining the timing of attrition, CSA was associated with early attrition whereas CPA and DV were unrelated to timing of attrition.

Childhood Exposure to Family Violence and Attrition in the Navy

For decades, investigators have attempted to predict the attrition of recruits from the military. Previously, researchers predicted attrition from demographic variables and recruit assessment data (e.g., screening measures of mental capacity and mental health) obtained during the recruiting process and at the beginning of basic military training (BMT).¹⁻⁴ To our knowledge, only two studies have examined the relationship between histories of childhood experiences of violence and recruit attrition.^{5,6} This is surprising given that both theory (e.g., social learning, developmental, and trauma models) and research suggest that childhood violence negatively impacts adolescent and adult socio-emotional functioning.⁷⁻¹⁶ Children exposed to family violence are at risk for a range of problems across their lifespan, including cognitive deficits, poor academic performance, low self-esteem, depression, anxiety, anger, and relationship problems. The range of problems that often result from childhood experiences of violence would theoretically be expected to reduce performance or to increase problems in adapting to the military, thereby increasing the likelihood of attrition.

The two studies that have examined the association between experiencing childhood violence and military attrition were conducted with U.S. Air Force recruits.^{5,6} The first study compared 25 recruits who attrited during BMT for mental health reasons with 25 recruits who completed BMT.⁵ Attrites were 10 times more likely to report a history of child sexual abuse (CSA) or child physical abuse (CPA) than were nonattrites (40% vs. 4%, respectively). The second study examined the relationship between self-reported sexual abuse (in childhood or adulthood) and attrition in a large sample of recruits.⁶ This study found that sexual abuse victims were 2.6 times more likely than nonvictims to attrite during BMT. This effect was significantly

stronger for men (odds ratio [OR] = 3.7) than for women (OR = 1.6). However, sexual abuse was unrelated to measures of later military performance among recruits who completed BMT.

One limitation of these previous studies is that they did not address the independent contributions of exposure to different types of childhood violence to the prediction of attrition; the first study combined CSA and CPA, whereas the second study combined CSA and adult sexual assault. The present study was conducted to examine the relationship between three distinct forms of childhood violence experiences – CSA, CPA, and domestic violence (DV) – and attrition in Navy recruits during and after BMT. The effect of each form of violence was examined both independently and simultaneously. The latter analysis is important because different types of childhood violence often co-occur. Examining the impact of a single form of abuse without controlling for other forms of abuse may result in overestimation of the impact of that type of violence on attrition.

It is unknown whether the association between childhood violence and military attrition differs between men and women. A previous study⁶ found that the effects of sexual abuse on attrition were stronger for men than for women. Their definition of childhood sexual abuse included both child and adult sexual assault experiences. In the present study, we compared the effects of CSA, and DV on attrition separately for male and female recruits.

Finally, we examined whether each type of childhood violence is associated with the timing of attrition. A previous study⁶ found that sexual abuse (childhood or adult) predicted attrition during BMT but was unrelated to attrition after BMT. Based on this finding, we tentatively predicted that CSA would be particularly associated with early attrition in the present study, and examined whether CPA and DV were also associated with the timing of attrition.

Methods

Participants

Incoming male ($n = 2,922$) and female ($n = 2,569$) Navy recruits at the Recruit Training Center at Great Lakes, Illinois voluntarily completed a set of self-report survey instruments. Overall, 94% of men and 93% of women participated. Variations in sample size due to missing or invalid data on specific measures are reflected in the *ns* reported for individual analyses. Participants ranged in age from 17 to 35 years ($M = 19.69$, $SD = 2.55$), with 71% being between 18 and 20 years of age. Most participants had completed high school or the equivalent (88%), with smaller numbers reporting no high school degree (4%) or some college (8%). The majority of recruits (90%) were single, with 6% married, 3% cohabiting, and 1% other. Participants were diverse in ethnicity, with 61% White, 20% African American, 11% Hispanic, and 8% other.

Measures

The survey instruments included measures of CSA, CPA, and DV. CSA was assessed using a modified version of the Sexual Events Questionnaire.¹⁷ Participants were classified as having experienced CSA if they reported one or more contact sexual experiences before the age of 14 with someone at least 5 years older. CPA was assessed using the 19-item Parent-Child version of the Conflict Tactics Scale (CTS), Form R.¹⁸ Seven CTS items assessed how often parents used severe or very severe physical violence (e.g., hitting, choking, burning) against the participant. Respondents were classified as having experienced CPA if they indicated that they had experienced any severe or very severe forms of violence by their parents or stepparents. Childhood exposure to DV was assessed using 6 items adapted from a previously used study measure.¹⁹ Respondents rated how many times “things like hitting, kicking, throwing someone down, biting, or choking” occurred between their parents or stepparents, or between a parent and

his or her romantic partner. Respondents were classified as having been exposed to DV if they reported that any such event had occurred while they were growing up.

Procedure

The questionnaires used in the present study were part of a more extensive survey package that was offered to Navy recruits during their first week at the RTC between June 1996 and June 1997. Nonmilitary personnel of the same gender as participants administered the survey package in a classroom setting to groups of male or female recruits. Participation was voluntary. Before agreeing to participate, recruits were provided with a description of the study, a Privacy Act statement, and an informed consent form describing their rights as participants, including the right to “leave blank any section or questions” and to “stop at any time before completing the survey.” Participants also granted permission to the researchers to obtain additional information about their military records and to analyze these data in conjunction with information provided on the survey. Attrition data for participants in the survey were obtained from the Career History Archival Medical and Personnel System (CHAMPS) database of the Naval Health Research Center, San Diego, California.

Results

Overall, approximately one-third of recruits (34%) failed to complete 4 years of military service. This rate of attrition is similar to previous estimates.²⁰ Men (33%) and women (34%) did not differ in overall attrition rates, $\chi^2(1, N = 5,491) = 1.19, n.s.$

In the sample as a whole, 18% of the respondents reported CSA, 36% reported CPA, and 32% reported DV. The occurrence of different types of childhood violence was positively associated (for CPA and DV, $\phi = .26$, for CPA and CSA, $\phi = .15$, for CSA and DV, $\phi = .18, ps < .001$). Slightly less than one-half (45%) of the respondents reported none of these forms of

childhood violence, with 31% reporting exposure to one type of violence, 19% reporting exposure to two types, and 5% reporting exposure to all three types. Men and women were equally likely to report CPA, $\chi^2 (1, N = 5,082) = 0.44, p > .05$. Women, however, were more likely than men to report experiencing CSA (26% vs. 10%) and DV (38% vs. 28%), $\chi^2 (1, N = 4,789) = 208.50$ and $\chi^2 (1, N = 5,144) = 59.10$, respectively, $ps < .001$. As would be expected based on the findings of higher base rates of CSA and DV for women, women were also more likely than men to report exposure to multiple types of childhood violence (30% vs. 19%) and less likely than men to report exposure to no form of childhood violence (39% vs. 49%), $\chi^2 (3, N = 4,252) = 106.18, p < .001$.

We considered the associations between each form of childhood violence and overall attrition both individually and simultaneously. To simultaneously examine the relationship between different types of violence and attrition, we conducted logistic regression analyses. These analyses correct for the covariation of different forms of violence. Odds Ratios (ORs) and associated 95% confidence intervals (CIs) for both separate and simultaneous analyses are provided in Table 1. ORs indicate how much more likely attrition is among individuals exposed to a particular form of violence versus those not exposed to that form of violence. CIs that do not include the value of 1.0 indicate statistically significant associations.

Considered separately (see Table 1), each form of childhood violence was significantly associated with increased overall likelihood of attrition (for CSA $\chi^2 [1, N = 4,789] = 21.93, p < .001$; for CPA, $\chi^2 [1, N = 5,082] = 10.42, p < .01$; for DV, $\chi^2 [1, N = 5,144] = 12.04, p < .01$). However, when the three forms of childhood violence were considered simultaneously, only CSA emerged as a significant predictor of attrition, $B (SE) = 0.35 (0.08), N = 4,252, p < .001$, although CPA approached significance, $B (SE) = 0.12 (0.07), p < .10$.

Table 1 also presents ORs and CIs separately for men and women. For men, when considered independently, all three forms of childhood violence were significantly associated with increased likelihood of attrition (for CSA, $\chi^2 [1, N = 2,488] = 14.68, p < .001$; for CPA, $\chi^2 [1, N = 2,708] = 9.44, p < .01$; for DV, $\chi^2 [1, N = 2,692] = 11.77, p < .01$). When the effects of all three forms of violence were considered simultaneously, results were similar. The effects of CSA and CPA remained statistically significant, $B (SE) = 0.50 (0.15), p < .01$ and $0.19 (0.10), p < .05$, respectively, and the effect of DV approached significance, $B (SE) = 0.18 (0.11), p < .10$ ($N = 2,195$). For women, in contrast, only CSA was significantly associated with attrition, whether the childhood violence variables were examined independently, $\chi^2 (1, N = 2,301) = 6.79, p < .01$, or simultaneously, $B (SE) = 0.26 (0.11), N = 2,057, p < .05$ (see Table 1). Despite differences in the pattern of significant effects for men and women, it is important to note that the associations between each form of childhood violence and attrition did not significantly differ as a function of sex. This is evident from the fact that the ORs for men and women overlap for each type of childhood violence considered.

To better illustrate the effects of exposure to multiple forms of childhood violence on attrition, Figure 1 displays the likelihood of attrition as a function of the number of forms of violence to which individuals had been exposed. As can be seen in Figure 1, the overall likelihood of attrition increased as the individual experienced multiple forms of childhood violence. Consistent with previous analyses, however, this effect was stronger for men than for women. Among men, those who experienced all three forms of childhood violence were 303% (OR = 3.03) more likely to attrite than were those who experienced no childhood violence. Women who experienced all three forms of violence were 139% (OR = 1.39) more likely to attrite than men who experienced no childhood violence.

The final set of analyses considered patterns of attrition over time. Attrition was 15% during the first year and 9%, 6%, and 3% for the three succeeding years. Of all attrition during the first year, 40% occurred during BMT and 60% occurred after BMT. Men and women differed in the timing of attrition, $\chi^2(3, N = 1,853) = 19.32, p < .001$. Men were more likely than women to attrite during the first year of service (49% vs. 39%). Women were more likely than men to attrite during the second (31% vs. 25%) or third (20% vs. 16%) year of service. Rates of attrition for the fourth year of service did not differ as a function of sex (10% for both men and women).

The association between childhood violence and the timing of attrition was examined in two ways. First, respondents who attrited were classified based on whether they attrited during the first, second, third, or fourth year of service. Regression analyses were conducted to predict time of attrition from each of the childhood violence variables. Neither the regressions on the entire sample nor the separate regressions conducted for men and women yielded any significant effects of childhood violence on timing of attrition ($ps > .10$). In addition, we conducted logistic regression analyses predicting a dichotomous timing of attrition variable (during BMT vs. post-BMT) from each form of childhood violence. These analyses revealed only a significant effect of CSA (for the entire sample, $B(SE) = -0.36(0.16), p < .05$; for men, $B(SE) = -0.52(0.24), p < .05$; for women, $B(SE) = -0.41(0.21), p = .052$). This effect indicates that CSA victims were more likely to attrite during BMT. CPA nor DV was significantly related to the timing of attrition in the sample as a whole, for men, or for women ($ps > .10$).

Discussion

The present study, like other research²⁰, indicates that approximately one-third of recruits attrite during the first 4 years of service. Attrition is a significant problem for the military and

costs U.S. taxpayers millions of dollars each year.²⁰ It is clearly necessary to consider many different factors to accurately predict which military personnel will attrite. Nonetheless, the present results indicate that childhood violence is one factor predictive of attrition. When considered separately, each of the three forms childhood violence considered here – CSA, CPA, and DV -- was found to contribute to the prediction of Navy recruit attrition. However, when they were considered simultaneously, CSA emerged as the strongest and most consistent predictor of attrition.

We found that 55% of the recruits in our study reported experiencing one or more forms of family violence. Taken together, for numerous methodological reasons, it is difficult to compare directly the prevalence rates found in previous studies with those of the present study. However, the prevalence rates for reports of childhood family violence among recruits are elevated when compared to the majority of studies that have used college and community samples.^{21,22}

For men, all three types of violence were significantly predictive of attrition. For women, in contrast, only CSA was predictive of attrition. One previous study of the impact of sexual assault on attrition¹⁶ found a significantly stronger association for men than for women. In the present study, although each form of childhood violence was more strongly associated with attrition for men than for women, in no case was this difference statistically significant. Thus, we have no basis for concluding that any specific type of childhood violence is more predictive of military attrition for men than for women. Nonetheless, the combined effect of having experienced all three forms of childhood violence does result in higher likelihood of attrition for men (303%) than for women (139%).

Because previous research suggested that correlates of attrition during BMT may differ from the correlates of later attrition, we also examined BMT and post-BMT attrition separately. A previous study found that sexual abuse predicted attrition⁶ during BMT but did not predict attrition after BMT. We attempted to replicate and extend this finding by examining the effects of 3 different types of childhood violence on the timing of attrition. The only significant finding in this regard, consistent with previous research, was that CSA was particularly associated with attrition during BMT. Neither CPA nor DV was significantly associated with the timing of attrition.

Why is CSA the strongest predictor of attrition for both men and women? Why do CPA and DV predict attrition for men but not for women? The present study was not designed to answer these questions. However, these issues may be clarified in future studies investigating possible mediating processes (e.g., trauma experiences, coping styles) that are responsible for the association between childhood exposure to family violence and later military attrition. An important advantage of studying mediators of this association is that findings may increase the potential for effective interventions to decrease the association between family violence and attrition. If, for example, trauma and ineffective coping are found to mediate the relationship between childhood violence and military attrition, intervening in these areas may reduce attrition among victims of childhood violence. However, it is important to note that this logic assumes a causal connection between childhood violence and the mediator (e.g., trauma), and between the mediator and attrition. Alternatively, it may be that an apparent mediator is not part of a causal chain linking childhood violence and attrition, but merely correlated with a third variable (or variables) that is associated with both. Efforts at establishing causation will require longitudinal research accompanied by measurement and control of other variables that constitute plausible

causes of attrition. Nevertheless, the results of the present study indicate that further investigation of potential mediators is warranted.

Acknowledgement

We thank the Navy Family Advocacy Program, the project sponsor, whose support made this project possible. We also extend our sincere gratitude to the staff at the Recruit Training Command at Great Lakes, Illinois, and especially the U.S. Navy recruits who volunteered to participate in this study.

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Author Notes

The Bureau of Naval Personnel, Department of the Navy, supported the reported research and preparation of this article.

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Table 1

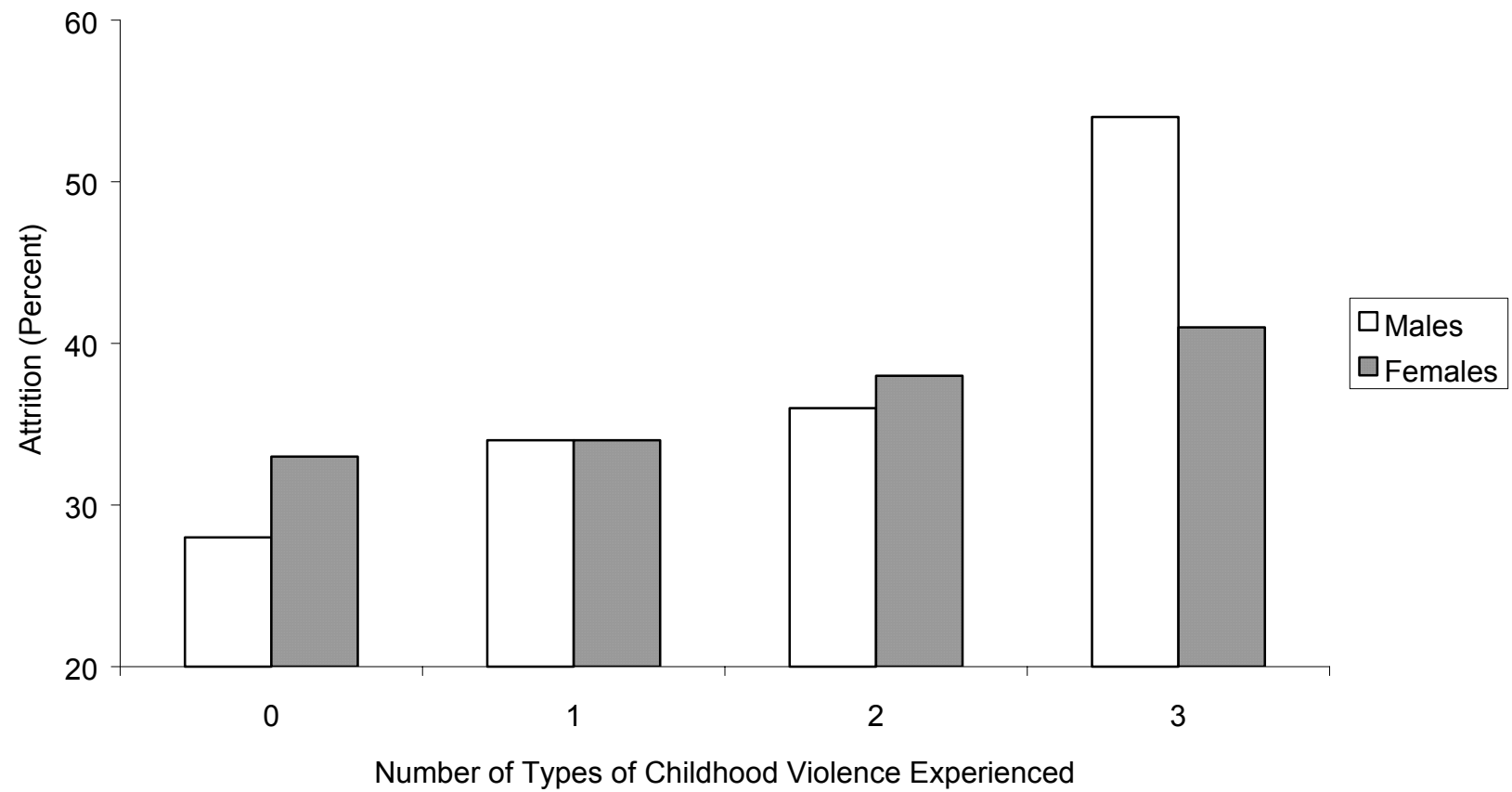
Associations between Exposure to Childhood Violence and Attrition In U.S. Navy Recruits

Experienced Violence	Total Sample		Men		Women	
	Simple	Partial	Simple	Partial	Simple	Partial
CSA						
OR	1.44**	1.42**	1.67**	1.66*	1.29*	1.29+
CI (95%)	1.23 – 1.67	1.20 – 1.67	1.28 – 2.18	1.24 – 2.21	1.06 – 1.56	1.05 – 1.59
CPA						
OR	1.22*	1.13	1.30*	1.21+	1.14	1.05
CI (95%)	1.08 – 1.38	0.98 – 1.29	1.10 – 1.53	1.00 – 1.47	0.95 – 1.35	0.86 – 1.28
DV						
OR	1.24*	1.12	1.36*	1.19~	1.13	1.04
CI (95%)	1.10 – 1.40	0.97 – 1.29	1.14 – 1.62	0.97 – 1.47	0.96 – 1.34	0.85 – 1.26

Note. CPA = childhood physical abuse; CSA = childhood sexual abuse; DV = domestic violence. Partial ORs control for the other forms of childhood violence; simple ORs do not.

** $p < .001$ * $p < .01$ + $p < .05$ ~ $p < .10$

Figure 1. Attrition (Percentage) as a Function of Number of Types of Childhood Violence Experienced In U.S. Navy Recruits



REPORT DOCUMENTATION PAGE

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1. Report Date (DD MM YY) Feb 2003		2. Report Type Interim		3. DATES COVERED (from - to)	
4. TITLE AND SUBTITLE Childhood Exposure to Family Violence and Attrition in the Navy				5a. Contract Number: 5b. Grant Number: 5c. Program Element: 5d. Project Number: 5e. Task Number: 5f. Work Unit Number: 6309 5g. IRB Protocol Number:	
6. AUTHORS Lex L. Merrill, Valerie A Stander, Cynthia J. Thomsen, Julie L. Crouch, & Joel S. Milner				8. PERFORMING ORGANIZATION REPORT NUMBER Report No. 03-07	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Naval Health Research Center P.O. Box 85122 San Diego, CA 92186-5122				10. Sponsor/Monitor's Acronyms(s) /BUPERS	
8. SPONSORING/MONITORING AGENCY NAMES(S) AND ADDRESS(ES) Bureau of Medicine and Surgery MED-02 2300 E St NW Washington DC 02372-5300				11. Sponsor/Monitor's Report Number(s)	
12 DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited.					
13. SUPPLEMENTARY NOTES Published in <u>Military Medicine</u> , 2004, 169(6), 465-469					
14. ABSTRACT (maximum 200 words) In a prospective study of U.S. Navy recruits ($N = 5,491$), we examined the relationship between childhood exposure to family violence (child physical abuse, CPA; child sexual abuse, CSA; and domestic violence, DV) and attrition. Overall, 55% of recruits experienced one or more forms of childhood family violence and 34% of recruits attrited within 4 years following enlistment. Considered separately, each form of childhood violence was significantly associated with attrition. When considered simultaneously, all three types of childhood violence were associated with attrition in men, but only CSA was associated with attrition in women. Men and women who experienced all three types of childhood violence were 303% and 139%, respectively, more likely to attrite than recruits who reported no childhood violence. In analyses examining the timing of attrition, CSA was associated with early attrition whereas CPA and DV were unrelated to timing of attrition.					
14. SUBJECT TERMS attrition, family violence, child abuse, recruits					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGE	18a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			Commanding Officer
UNCL	UNCL	UNCL	UNCL		18b. TELEPHONE NUMBER (INCLUDING AREA CODE) COMM/DSN: (619) 553-8429